



# FortiHypervisor - Release Notes

Version 1.0.2

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FortiHypervisor Release Notes v.1.0.2

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# Change Log

Date	Change Description
2016-07-06	Initial Release.
2016-10-11	Version 1.0.1
2016-11-21	<ul style="list-style-type: none"><li>• Version 1.0.2</li><li>• Changes to supported virtualization guests</li><li>• New features section added</li></ul>
2017-01-24	<ul style="list-style-type: none"><li>• Additional Resolved issues</li><li>• Additional Known issues</li></ul>

# Introduction

This document provides the following information about FortiHypervisor version 1.0.2.

- [Upgrade/Downgrade Information](#)
- [Product Integration and Support](#)
- [Resolved Issues](#)
- [Known Issues](#)

## Supported Models

This version of FortiHypervisor supports the following models.

- |                        |  |
|------------------------|--|
| <b>FortiHypervisor</b> | <ul style="list-style-type: none"><li>• FHV-90E</li><li>• FHV-500D</li><li>• FHV-2500E</li></ul> |
|------------------------|--|

## New Features

The following features have been added in FortiHypervisor 1.0.2:

- Added support for FortiSandbox KVM
- Added support for FortiCache KVM
- API Enhancements - The REST API has been extended to add 2 new endpoints:
  - `/monitor/vm/instance`
  - `/monitor/vm/image`

# Product Integration and Support

## FortiHypervisor 1.0.2 Support

The following tables lists FortiHypervisor 1.0.2 product integration and support information:

### Web Browsers

The following web browsers have been tested for use with FortiHypervisor:

Microsoft	<ul style="list-style-type: none"><li>• Microsoft Edge 25</li><li>• Microsoft Internet Explorer 11</li></ul>
Mozilla	Firefox version 46
Google	Chrome version 50
Apple	Safari version 9.1 (For Mac OS X)
Others	Other web browsers may function correctly, but are not supported by Fortinet.

### Virtualization Guests

The table lists the various VMs (Fortinet and others) and their version numbers that have been tested with FortiHypervisor and are considered to be supported.

FortiGate KVM	5.4.1 and above This guest model is released on a special branch based off of FortiOS 5.4.1. As such, the Dashboard > System Information widget and the output from the <code>get system status</code> CLI command displays the build number as 7249. To confirm that you are running the proper build, the output from the <code>get system status</code> CLI command has a branch point field that should read 1064.
FortiManager KVM	5.4.1 and above
FortiAnalyzer KVM	5.4.1 and above
FortiWeb KVM	5.6.0 and above
FortiADC KVM	4.6.0 and above
FortiMail KVM	5.3.6 and above

FortiRecorder KVM	2.4.1 and above
FortiVoice KVM	5.2.2 and above
FortiVoiceEnterprise KVM	5.0.5 and above
FortiCache	4.1.2 and above *
FortiSandbox	2.3.3 and above **
Linux VM	<ul style="list-style-type: none"> <li>• CentOS 7</li> <li>• Ubuntu 15.10</li> <li>• Tiny Core Linux</li> <li>• Alpine Linux 3.2.3*</li> </ul>
OpenBSD	<ul style="list-style-type: none"> <li>• 5.8*</li> <li>• 6.0*</li> </ul>
Windows VM	<ul style="list-style-type: none"> <li>• Windows Server 2012 - R2 *</li> <li>• Windows 10 Professional *</li> <li>• Windows 7 Professional</li> </ul>

\* - These installations require the use of the IDE disk and E1000 network interfaces

\*\* - Supported on FHV-500 and above.

## Resolved Issues

Bug ID	Description
302171	Some interface functionality changes unexpectedly if the interface is added to a virtual switch.
390126	FHV-500D bridge mode virtual switch can't set MTU value to be 9000
394634	<p>CVE-2016-5195 - Linux Kernel Dirty Cow Vulnerability</p> <p>Versions of FortiHypervisor prior to 1.0.2 utilized a Kernel vulnerable to CVE-2016-5195. This has been resolved in 1.0.2.</p>
396411	GUI - Internal Server Error (error 500) on Update VM License
396605	Interface can not ping itself on FHV-500D & FHV-2500E
396627	Static default gateway does not work on FHV-500D
396690	Backup configuration to USB disk fails on FHV-500D

Bug ID	Description
397729	Incorrect interface speed option on FHV-2500E SFP+ ports
397976	ARP packet lost when NP Offload disabled
397989	NP offload fails on aggregated interface
398363	Ubuntu VM could not ssh another Ubuntu VM in the same host
399041	API: Upgrade firmware fails with Firmware image is not valid
399723	Manual clock changes and NTP do not update RTC therefore time changes do not survive reboot.
399821	Max VM RAM limited to 12GB on FHV-2500E
400730	Auth - Remote LDAP user authentication fails when wildcard not specified
400962	Networking - IPv4 and IPv6 multicast is blocked by host
400995	Networking - Host kernel crash when guest VM has IPv6 setup
401952	The IPV6 session table is not refreshed for the connection with np6 offload. This can result in TCP sessions prematurely terminated.
401958	New IPv6 UDP & ICMP session creation following session deletion (due to mantis 0401952 or manual deletion) fails when the incoming interface is aggregated and NP Offload is enabled.



## Known Issues

The following issues have been identified in FortiHypervisor. For inquiries about a particular bug or to report a bug, please contact Customer Service & Support.

Bug ID	Description
300404	The <code>get system interface transceiver</code> command is not available.
300514	Virtual MAC addresses generated by FortiHypervisor may not be in Fortinet's MAC address range.
366705	FortiHypervisor does not support Content Processing (CP) acceleration for client VMs.
366779	The following NP6 features are not supported in this release: CAPWAP offloading, NTrubo offloading, and SIT and IPv6 Tunnelling (IPTunnel) offloading. All other NP6 features are supported.
367957	When you power off the FortiHypervisor from the GUI there may be a delay of a few minutes before the unit powers off if the system is busy.
369970	You can import a VM image into FortiHypervisor even if the image limit has been reached. An error message will appear but the image is still imported.
373587	The Average Network Usage data displayed by the <code>get system performance status</code> command is incorrect.
373724	Guest data traffic can not be sniffed when NP6 offloading is disabled.
373773	From the FortiHypervisor CLI you cannot sniff or monitor incoming traffic.
374084	CAPWAP traffic may experience packet loss.
378086	Error messages appear when performing a factory reset from the CLI.
378246	The CLI help for setting the MTU value for an interface shows an incorrect MTU value range. The correct range is 68 - 9216.
398842	Seg Fault in API permission-check when URI not set
402633	Unable to pull product list from FortiGuard. Product list under "Virtual Machine" > "Import" > "Product" remains blank in the GUI.
402956	FortiOS KVM configured with e1000 emulation on FHV does not support VLAN. Workaround - Use the Virtio drives
404073	No warning on system reboot or upgrade/downgrade when Guest VMs are running



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